



July 1, 2013

State Remediation Section
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

RECEIVED

AUG 09 2013

SITE ASSESSMENT,
REMEDIATION &
REVITALIZATION

Attn: Ms. Keisha Long
PHN: 803-896-4872
FAX: 803-896-4292
Email: longkd@dhec.sc.gov

Re: Monitoring Well Sampling Results
Castlebridge Properties, LLC Property
200/280 National Avenue
Spartanburg, Spartanburg County, South Carolina
VCC 07-5712-RP
Terracon Project No. 86117104

Dear Ms. Long:

On behalf of Castlebridge Properties, LLC, Terracon Consultants, Inc. (Terracon) provides the results of field screening activities conducted at the Castlebridge Properties, LLC property located at 200/280 National Avenue in Spartanburg, South Carolina. The field screening activities were conducted in accordance with the workplan addendum prepared December 30, 2011 and approved January 20, 2012 with supplemental approval on April 15, 2013. The scope of work is to satisfy requirements of the Voluntary Cleanup Contract (VCC 07-5712-RP) as specified in the Remedial Investigation Phase I Report (RI Phase I Report), dated March 6, 2009.

SITE INFORMATION

The Site is located at 200 and 280 National Avenue in Spartanburg, Spartanburg County, South Carolina, approximately one-half mile west of the intersection of New Cut Road and Interstate 26 (see Figure 1). The Site contains two semi-rectangular parcels identified by Spartanburg County map numbers 2-54-00-008.01 (8.9 acres) and 2-54-00-008.00 (12.1 acres).

The Site encompasses two vacant industrial-type warehouses, asphalt parking areas, a fire-suppression water-tank, landscaped areas, security fencing and undeveloped, wooded land. A site diagram is included as Figure 2 and shows the Site layout and pertinent features.



Terracon Consultants, Inc. 3534 Rutherford Road Taylors, South Carolina 29687
P [864] 292 2901 F [864] 292 6361 terracon.com

(25)

Findings of the Remedial Investigation (RI) Phase I assessment conducted in September 2008 indicate tetrachloroethene (PCE) and trichloroethene (TCE), to a lesser degree, are the primary constituents of concern at the Site. VOC impacts to soil were identified; however, the reported concentrations did not exceed industrial SSLs. Where impacts to soil were identified, PCE and TCE were also detected in the groundwater screening samples at concentrations exceeding their respective MCLs. No LNAPL or DNAPL were observed in the groundwater screening samples. Based on the distribution of the detected PCE/TCE constituents, the source of the contamination appears to be related to the previous use of drycleaning fluids at the 200 National Avenue building and, to a lesser degree, at the 280 National Avenue building. Based on the Phase I RI screening results, seven permanent monitoring wells (MW-1D, -2D, -3, -4, -5, -6D, and -7D) were installed on the Castlebridge property to evaluate the on-site horizontal extent of the chlorinated hydrocarbon plume in the saprolite and shallow bedrock aquifer. Off-site wells were not installed at that time due to site physical constraints and access issues.

Results from the groundwater sampling event indicated the groundwater flow direction at the site is to the north-northwest toward the groundwater discharge point of the stream present along the western property boundary. Two samples were collected from the stream along the western property boundary during the RI Phase I sampling activities. No VOCs were detected in the stream samples. Groundwater analytical data from the permanent monitoring wells revealed concentrations of PCE in exceedance of the MCL in all the wells, except MW-5. No other VOCs, including TCE, were detected in the samples above applicable regulatory standards. Based on the distribution of the PCE, low levels of PCE impacted groundwater is present in the vicinity of the AST area at the southwest corner of the 200 National Avenue building and the vicinity of the septic tank area of the 280 National Avenue building. The PCE contaminant plume at MW-2D appeared to diminish significantly within 200 to 300 feet downgradient of the 200 National Avenue building. Based on a review of the groundwater sampling results, DHEC requested additional assessment to further define the extent of chlorinated volatile organic compounds (CVOCs) in the groundwater downgradient of MW-6D and MW-1D.

FIELD SCREENING

Following a lengthy access approval process from the west-adjacent land owner, Mr. J. Cothran (Spartanburg County Tax ID 2-54-00-008.06), Terracon conducted initial groundwater screening on the Cothran property from January 23-24, 2013. NYEG, Inc. (SC Well Driller Certification #2000) installed the temporary monitoring wells with a track-mounted GeoProbe® direct-push drill-rig at the locations shown on Figure 2. Twelve (12) shallow temporary wells GP-1 through GP-12 were installed to the saprolite/partially weathered bedrock interface, as defined by probe refusal, to assess the horizontal extent of CVOCs in the water table/upper bedrock aquifer. Borings GP-1 through GP-5 were installed

on the Cothran property adjacent to and downgradient from the 280 National Avenue building. Borings GP-6 through GP-12 were installed on the Cothran property adjacent to and downgradient from the 200 National Avenue building. Probe refusal was encountered in each boring ranging from 23 feet below ground surface (bgs) in GP-2 to 72 feet bgs in GP-10 and GP-12. Groundwater was not encountered above probe refusal in GP-1 (24' bgs), GP-2 (23' bgs), and GP-4 (24' bgs).

Groundwater samples were collected from each temporary monitoring well, which exhibited groundwater, using decontaminated GeoProbe® groundwater samplers utilizing new polyethylene tubing and stainless steel check valve points. The samplers and down-hole tooling were decontaminated between each use per procedures specified in the approved SAP. The groundwater screening samples were collected in unpreserved 40-mL vials for screening of tetrachloroethene (PCE) using the Color-Tec® method. The vials were heated to promote volatilization and screened using low-level Gastec detector tubes for tetrachloroethene (133LL). The Color-Tec screening results indicated no PCE detections above the tube detection limit of 0.1 ppm in the groundwater samples with the exception of GP-9 (0.5 ppm) and GP-10 (0.5 ppm). Color-Tec® screening values for each of the groundwater screening samples are summarized in Table 1. As supplement to each screening sample, a groundwater sample was collected for laboratory analysis and submitted to ESC Lab Services (SC Certification #84004) of Mt. Juliet, TN. The samples were analyzed for (CVOCs using EPA Method 8260B. Results of the laboratory analysis are summarized on Table 1.

During the screening process, no light non-aqueous phase liquids (LNAPL) or dense non-aqueous phase liquids (DNAPL) were visually observed in any of the groundwater samples collected. Following sample collection, the temporary wells were abandoned with bentonite cement grout in accordance with *R.61-71 South Carolina Well Standards* (SCDHEC, April 2002).

Based on the laboratory analytical data for the initial screening activities, the downgradient horizontal extent of the chlorinated groundwater plume remained undefined with detections of PCE above the MCL (5 µg/L) in the most downgradient temporary wells GP-6 (6.6 µg/L), GP-11 (14 µg/L) and GP-12 (130 µg/L).

Terracon remobilized to the site on April 16, 2013 to conduct additional field screening activities. SAEDACCO, Inc. (SC Well Driller Certification #1472) installed seven temporary monitoring wells (GP-13 through GP-19) with a track-mounted GeoProbe® direct-push drill-rig at the locations shown on Figure 2. GP-13 was installed topographically downgradient of GP-6. GP-14 through GP-17 were installed topographically downgradient of GP-11 and GP-12. GP-18 and GP-19 were installed on the western edge of the Cothran property and across the intermittent stream bisecting the Cothran property. The temporary wells were

installed in a similar fashion as the initial field screening activities. Probe refusal was encountered at each location ranging from 31 feet bgs at GP-16 and GP-19 to 62 feet bgs at GP-15. Groundwater was encountered in each boring; however, a groundwater sample could not be collected from GP-14 due to a GeoProbe® sampler malfunction. Several attempts were made to relocate GP-14; however, thick vegetation and/or shallow boulder float prevented the reinstallation of a temporary well at the GP-14 location.

Groundwater samples from the temporary monitoring wells were collected in a similar fashion as the initial field screening activities. The groundwater samples were field screened using the Color-Tec method with low-level Gastec detector tubes for tetrachloroethene (133LL). The Color-Tec screening results indicated no PCE detections above the tube detection limit of 0.1 ppm in the groundwater samples from GP-13 through GP-19. A groundwater sample was collected for laboratory analysis and submitted to ESC Lab Services and analyzed for CVOCs using EPA Method 8260B. Results of the laboratory analysis are summarized on Table 1.

During the second screening process, no light non-aqueous phase liquids (LNAPL) or dense non-aqueous phase liquids (DNAPL) were visually observed in any of the groundwater samples collected. Following sample collection, the temporary wells were abandoned with bentonite cement grout in accordance with *R.61-71 South Carolina Well Standards* (SCDHEC, April 2002).

The analytical results for the second screening process indicate the horizontal extent of the plume has been adequately defined downgradient of the 280 National Avenue building with no detection of PCE above the method detection limit at indicated in GP-13 (< 1.0 µg/L) and GP-5 (< 1.0 µg/L).

The analytical results indicate the horizontal extent of the plume has been adequately defined downgradient of the 200 National Avenue building with no detections of PCE at GP-18 (< 1.0 µg/L) and GP-19 (< 1.0 µg/L). GP-5 exhibited a PCE concentration of 3 µg/L, which is below the MCL of 5 µg/L. GP-17 exhibited a PCE concentration of 8.5 µg/L, above its MCL; however, additional groundwater samples could not be collected due to physical constraints of the adjacent creek and the nearby Norfolk-Southern railroad line. The creek was sampled during the 2007 RI with no CVOC impacts determined.

PERMANENT WELL INSTALLATION

Based on the field screening analytical results, it is proposed that six (6) permanent monitoring wells be installed to monitor the plume in accordance with the approved December 2011 Workplan Addendum. It is proposed that two wells will be installed downgradient of MW-6D in the vicinity of the GP-6/GP-13 location and the GP-5 location. It

is proposed that three wells will be installed downgradient of the existing monitoring well network, with one well between GP-14 and GP-15; one well between GP-12 and GP-16; and one well at the GP-17 location. In addition, a background well will be installed upgradient of MW-7D (near the southeast property corner of National Avenue and New Cut Road). The locations of the proposed monitoring wells, in relation to the GeoProbe® sample points, are depicted on Figure 3.

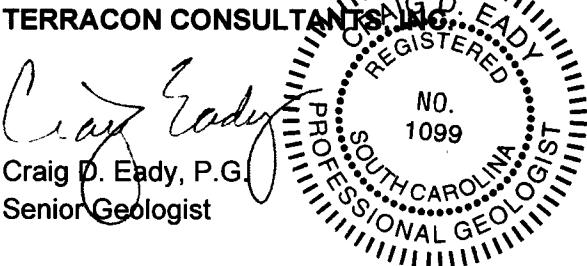
Terracon will contract a well driller certified in South Carolina to install the permanent groundwater monitoring wells. The borings for the wells will be drilled with 4-1/4-inch I.D. hollow stem augers and, as conditions dictate, with NQ wireline rock corebarrel or percussion air hammer, to approximate 5 feet into the bedrock. The wells will be installed with 10-foot pre-slotted PVC well screens per construction details specified in the approved RI Phase I Report.

The background well will be drilled as a stratigraphic boring to evaluate shallow bedrock for fractures and orientation. The boring will be drilled with 4-1/4-inch I.D. hollow stem augers until the bedrock is intercepted. Afterwards the boring will be advanced using a NQ wireline rock corebarrel to a depth of 25 feet into competent bedrock. Following the completion of the boring and retrieval of the rock cores, the boring will be backfilled with Bentonite-cement grout up to the level of the proposed monitoring wells and be completed as described above.

Following completion of the permanent well installation, the wells will be sampled and surveyed in accordance with the approved December 2011 Workplan Addendum.

We appreciate the opportunity to provide results of the field screening activites and proposed monitoring well locations. If you have any questions or comments regarding the information provided herein, please contact Craig Eady at 864.292.2901 or Chuck Clymer at 803.741.9000.

Sincerely,



Craig D. Eady, P.G.
Senior Geologist

for
Charles R. Clymer, P.G.
Senior Principal

CC: Mr. Thom Morgan, Castlebridge Properties, LLC, P.O. Box 128, Hazelwood, NC 28738
Ms. Gail Jeter, Cardno, 1233 Washington Street, Suite 1000, Columbia, South Carolina
29201

Monitoring Well Sampling Results
Castlebridge Properties, LLC Property
Terracon Project No. 86117104
July 1, 2013



Attachments: FIGURES

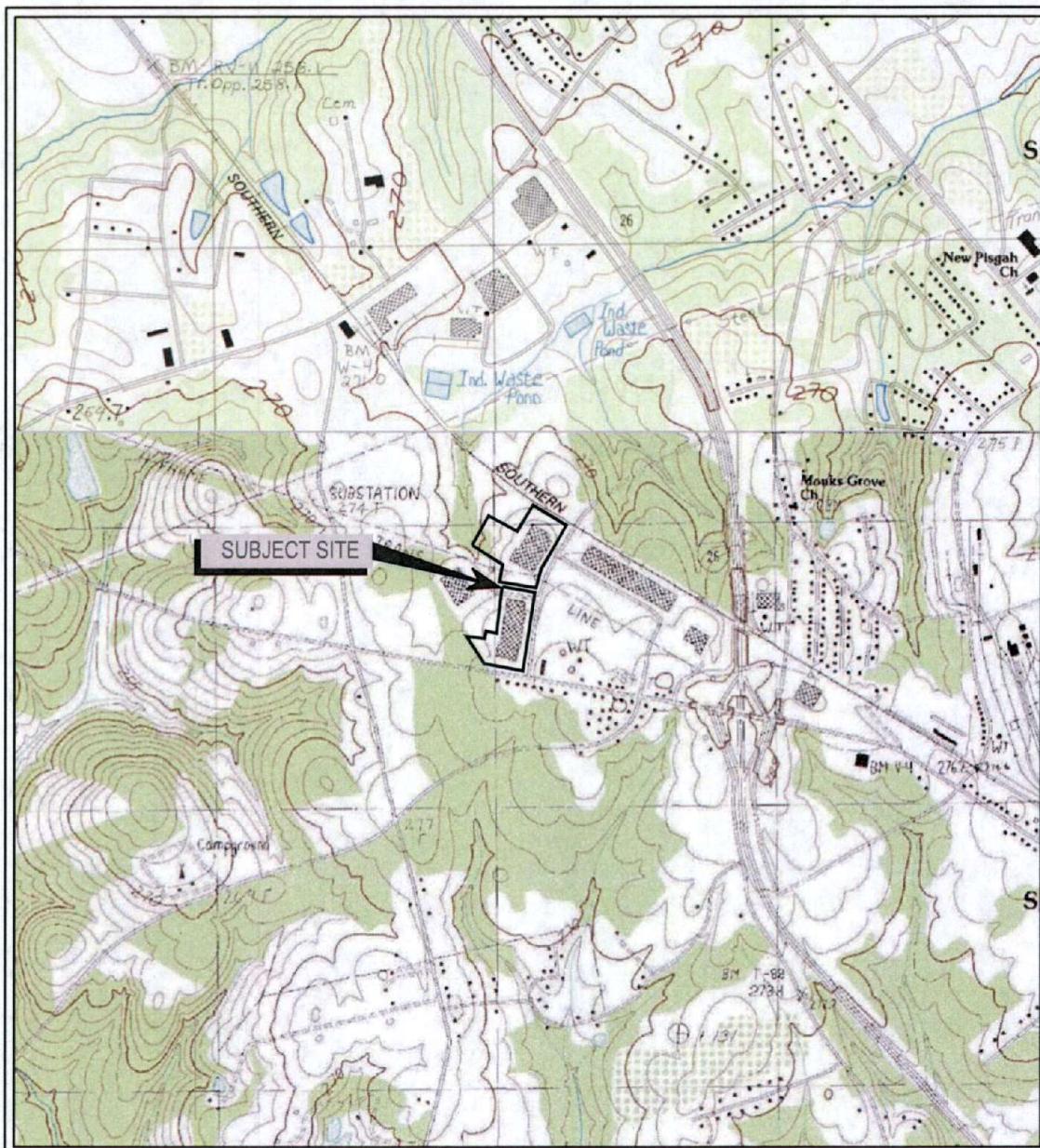
- Figure 1 – Site Location Map
- Figure 2 – GeoProbe Location Map
- Figure 3 – Proposed Well Location Map

TABLE

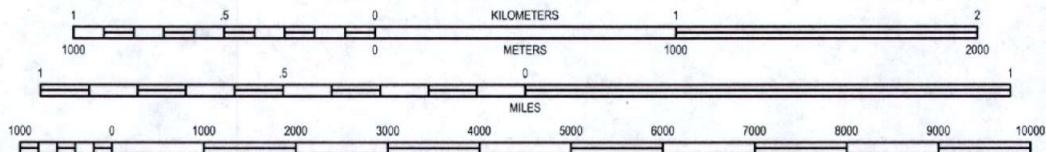
Table 1 - Summary of COCs in Groundwater

Laboratory Analytical Reports

FIGURES



SCALE 1:24 000



CONTOUR INTERVAL 3 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

INMAN, SOUTH CAROLINA
WELLFORD, SOUTH CAROLINA
1983
7.5 MINUTE SERIES (TOPOGRAPHIC)

Project Mngr:	CDE
Drawn By:	TLY
Checked By:	CDE/MRF
Approved By:	CDE

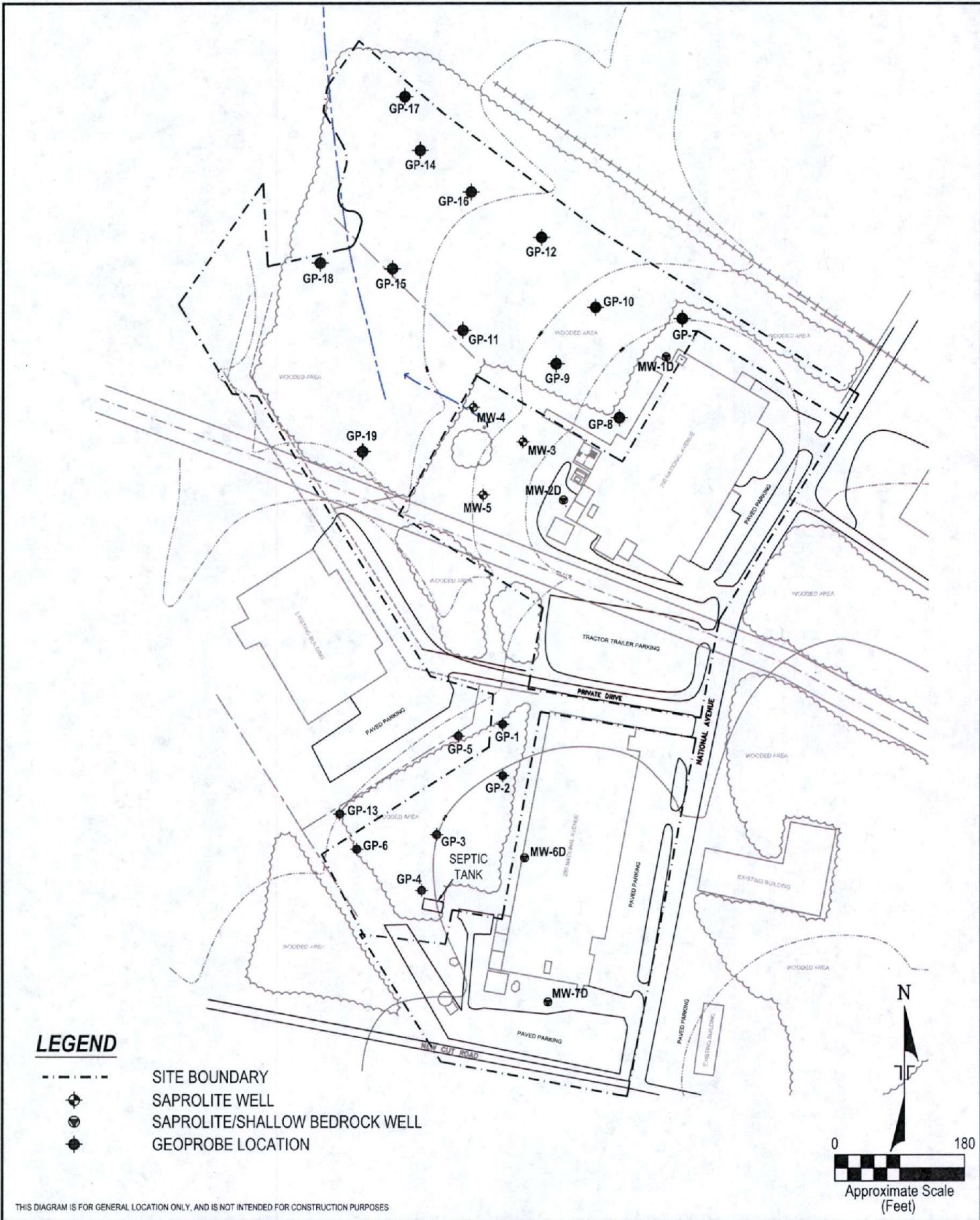
Project No.	86117104
Scale:	AS SHOWN
File No.	R86117104-1
Date:	DECEMBER 2011

Terracon
Consulting Engineers and Scientists

3534 Rutherford Road
(864) 292-2901

Taylors, SC 29687
(864) 292-6361

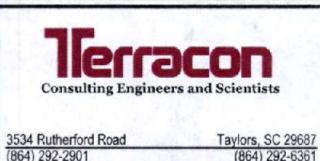
SITE LOCATION MAP	
PHASE II RI WELL INSTALLATION WORKPLAN CASTLEBRIDGE PROPERTIES, LLC PROPERTY 200 AND 280 NATIONAL AVENUE SPARTANBURG, SPARTANBURG COUNTY, SC	FIG. No. 1



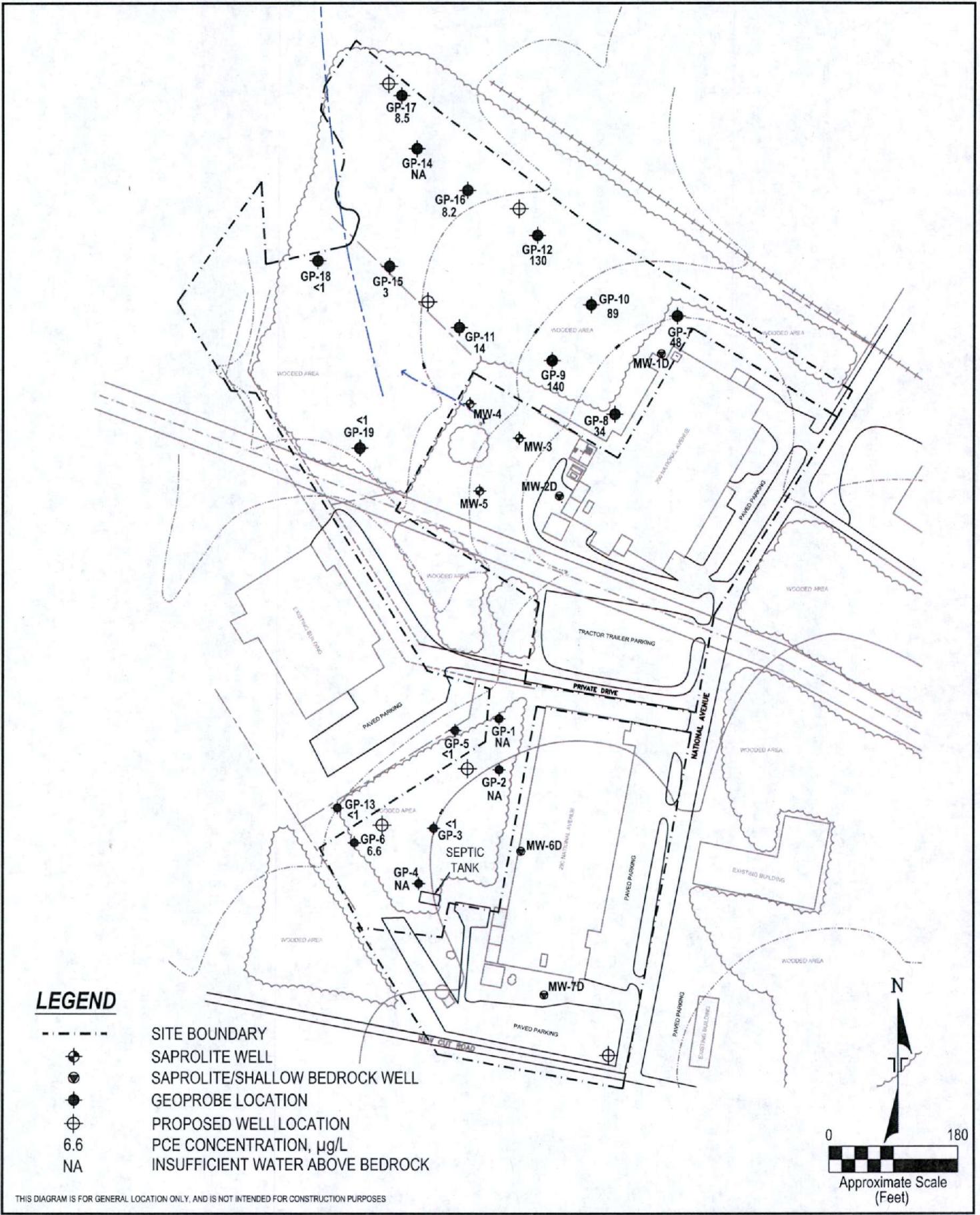
THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	CDE
Drawn By:	DWD
Checked By:	CDE/MRF
Approved By:	CDE

Project No.	86117104
Scale:	AS SHOWN
File No.	RIB6117104-3
Date:	JULY 2013



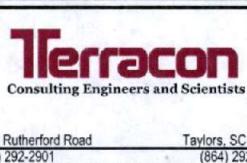
GEOPROBE LOCATION MAP		FIG. No.
PHASE II RI WELL INSTALLATION REPORT CASTLEBRIDGE PROPERTIES, LLC PROPERTY 200 AND 280 NATIONAL AVENUE SPARTANBURG, SPARTANBURG COUNTY, SC		2



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	CDE
Drawn By:	DWD
Checked By:	CDE/MRF
Approved By:	CDE

Project No.	86117104
Scale:	AS SHOWN
File No.	R86117104-3
Date:	JULY 2013



PROPOSED WELL LOCATION MAP	
PHASE II RI WELL INSTALLATION REPORT CASTLEBRIDGE PROPERTIES, LLC PROPERTY 200 AND 280 NATIONAL AVENUE SPARTANBURG, SPARTANBURG COUNTY, SC	

FIG. No.	3
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TABLE

Table 1
Summary of COCs in Groundwater
Castlebridge Properties, LLC Property
200/280 National Avenue, Spartanburg, SC
VCC 07-5712-RP

Well ID	Sample Interval (ft)	Probe Refusal (ft)	Date	Color-Tec MCL ppm	1,1-Dichloroethane		1,2-Dichloroethane		cis-1,2-Dichloroethene		Tetrachloroethene		Trichloroethene		Vinyl chloride	
					NA	μg/L	NA	μg/L	NA	μg/L	NA	μg/L	NA	μg/L	NA	μg/L
<i>NA - Not Analyzed, insufficient water for sample collection</i>																
GP-1	22-26	26	1/23/2013	<0.1	<1		5		70		5		5		2	
GP-2	19-23	23	1/24/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-3	23-27	27	1/23/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-4	20-24	24	1/24/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-5	13-17	17	1/24/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-6	52-56	56	1/23/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-7	66-70	70	1/24/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-8	54-58	58	1/24/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-9	53.5-57.5	57.5	1/24/2013	0.5	<10		NA		NA		NA		NA		NA	
GP-10	68-72	72	1/24/2013	0.5	<1		NA		NA		NA		NA		NA	
GP-11	34-38	38	1/24/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-12	68-72	72	1/24/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-13	50-54	54	4/16/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-14	36-40	40	4/16/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-15	58-62	62	4/16/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-16	27-31	31	4/16/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-17	40-44	44	4/16/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-18	47-51	51	4/16/2013	<0.1	<1		NA		NA		NA		NA		NA	
GP-19	27-31	31	4/16/2013	<0.1	<1		NA		NA		NA		NA		NA	

Notes:

MCL: Maximum Contaminant Limit per "EPA RSL, May 2013"

NA: Not Analyzed, insufficient water for sample collection

NE: No MCL established

Gray shaded areas are in excess of established MCLs.

Represents Color-Tec screening result using Gasteec 133LL detector tubes for PCE, concentrations in parts per million

LABORATORY ANALYTICAL REPORTS



YOUR LAB OF CHOICE

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Tax I.D. 62-0814289

Est. 1970

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Report Summary

Monday January 28, 2013

Report Number: L617368

Samples Received: 01/26/13

Client Project: 86117104

Description: Castlebridge

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jimmy Hunt
Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge
Sample ID : GP-3 23-27FT
Collected By : Craig Eady
Collection Date : 01/23/13 12:20

ESC Sample # : L617368-01

Site ID : SPARTANBURG, SC

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/26/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/26/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/26/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/26/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/26/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/26/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/26/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/26/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/26/13	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	01/26/13	1
Dibromofluoromethane	98.9		% Rec.	8260B	01/26/13	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	01/26/13	1
4-Bromofluorobenzene	104.		% Rec.	8260B	01/26/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 01/28/13 14:17 Printed: 01/28/13 14:38



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Est. 1970

REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge
Sample ID : GP-5 13-17FT
Collected By : Craig Eady
Collection Date : 01/24/13 09:30

ESC Sample # : L617368-02

Site ID : SPARTANBURG, SC

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/26/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/26/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/26/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/26/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/26/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/26/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/26/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/26/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/26/13	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	01/26/13	1
Dibromofluoromethane	96.1		% Rec.	8260B	01/26/13	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	01/26/13	1
4-Bromofluorobenzene	103.		% Rec.	8260B	01/26/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge

ESC Sample # : L617368-03

Sample ID : GP-6 52-56FT

Site ID : SPARTANBURG, SC

Collected By : Craig Eady
Collection Date : 01/23/13 15:00

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/26/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/26/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/26/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/26/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/26/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/26/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/26/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/26/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Tetrachloroethene	6.6	1.0	ug/l	8260B	01/26/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/26/13	1
Surrogate Recovery						
Toluene-d8	98.4		% Rec.	8260B	01/26/13	1
Dibromofluoromethane	95.2		% Rec.	8260B	01/26/13	1
a,a,a-Trifluorotoluene	109.		% Rec.	8260B	01/26/13	1
4-Bromofluorobenzene	106.		% Rec.	8260B	01/26/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge
Sample ID : GP-7 66-70FT
Collected By : Craig Eady
Collection Date : 01/24/13 11:00

ESC Sample # : L617368-04

Site ID : SPARTANBURG, SC

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/26/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/26/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/26/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/26/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/26/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/26/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/26/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/26/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Tetrachloroethene	48.	1.0	ug/l	8260B	01/26/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/26/13	1
Surrogate Recovery						
Toluene-d8	102.	% Rec.	8260B	01/26/13	1	
Dibromofluoromethane	117.	% Rec.	8260B	01/26/13	1	
a,a,a-Trifluorotoluene	99.9	% Rec.	8260B	01/26/13	1	
4-Bromofluorobenzene	106.	% Rec.	8260B	01/26/13	1	

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge
Sample ID : GP-8 54-58FT
Collected By : Craig Eady
Collection Date : 01/24/13 12:15

ESC Sample # : L617368-05

Site ID : SPARTANBURG, SC
Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/26/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/26/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/26/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/26/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/26/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/26/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/26/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/26/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/26/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/26/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Tetrachloroethene	34.	1.0	ug/l	8260B	01/26/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/26/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	01/26/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/26/13	1
Surrogate Recovery						
Toluene-d8	97.9		% Rec.	8260B	01/26/13	1
Dibromofluoromethane	95.8		% Rec.	8260B	01/26/13	1
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	01/26/13	1
4-Bromofluorobenzene	102.		% Rec.	8260B	01/26/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge
Sample ID : GP-9 53.5-57.5FT
Collected By : Craig Eady
Collection Date : 01/24/13 13:20

ESC Sample # : L617368-06

Site ID : SPARTANBURG, SC

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	10.	ug/l	8260B	01/26/13	10
Bromoform	BDL	10.	ug/l	8260B	01/26/13	10
Bromomethane	BDL	50.	ug/l	8260B	01/26/13	10
Carbon tetrachloride	BDL	10.	ug/l	8260B	01/26/13	10
Chlorobenzene	BDL	10.	ug/l	8260B	01/26/13	10
Chlorodibromomethane	BDL	10.	ug/l	8260B	01/26/13	10
Chloroethane	BDL	50.	ug/l	8260B	01/26/13	10
Chloroform	BDL	50.	ug/l	8260B	01/26/13	10
Chloromethane	BDL	25.	ug/l	8260B	01/26/13	10
1,2-Dichlorobenzene	BDL	10.	ug/l	8260B	01/26/13	10
1,3-Dichlorobenzene	BDL	10.	ug/l	8260B	01/26/13	10
1,4-Dichlorobenzene	BDL	10.	ug/l	8260B	01/26/13	10
1,1-Dichloroethane	BDL	10.	ug/l	8260B	01/26/13	10
1,2-Dichloroethane	BDL	10.	ug/l	8260B	01/26/13	10
1,1-Dichloroethene	BDL	10.	ug/l	8260B	01/26/13	10
cis-1,2-Dichloroethene	12.	10.	ug/l	8260B	01/26/13	10
trans-1,2-Dichloroethene	BDL	10.	ug/l	8260B	01/26/13	10
1,2-Dichloropropane	BDL	10.	ug/l	8260B	01/26/13	10
cis-1,3-Dichloropropene	BDL	10.	ug/l	8260B	01/26/13	10
trans-1,3-Dichloropropene	BDL	10.	ug/l	8260B	01/26/13	10
Methylene Chloride	BDL	50.	ug/l	8260B	01/26/13	10
1,1,2,2-Tetrachloroethane	BDL	10.	ug/l	8260B	01/26/13	10
Tetrachloroethene	140	10.	ug/l	8260B	01/26/13	10
1,1,1-Trichloroethane	BDL	10.	ug/l	8260B	01/26/13	10
1,1,2-Trichloroethane	BDL	10.	ug/l	8260B	01/26/13	10
Trichloroethene	BDL	10.	ug/l	8260B	01/26/13	10
Vinyl chloride	BDL	10.	ug/l	8260B	01/26/13	10
Surrogate Recovery						
Toluene-d8	99.0	% Rec.	8260B	01/26/13	10	
Dibromofluoromethane	98.1	% Rec.	8260B	01/26/13	10	
a,a,a-Trifluorotoluene	106.	% Rec.	8260B	01/26/13	10	
4-Bromofluorobenzene	107.	% Rec.	8260B	01/26/13	10	

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge
Sample ID : GP-10 68-72FT
Collected By : Craig Eady
Collection Date : 01/24/13 14:10

ESC Sample # : L617368-07

Site ID : SPARTANBURG, SC

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/27/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/27/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/27/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/27/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/27/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/27/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/27/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/27/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
cis-1,2-Dichloroethene	3.0	1.0	ug/l	8260B	01/27/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/27/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/27/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/27/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/27/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
Tetrachloroethene	89.	1.0	ug/l	8260B	01/27/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
Trichloroethene	1.2	1.0	ug/l	8260B	01/27/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/27/13	1
Surrogate Recovery						
Toluene-d8	103.	% Rec.	8260B	01/27/13	1	
Dibromofluoromethane	108.	% Rec.	8260B	01/27/13	1	
a,a,a-Trifluorotoluene	103.	% Rec.	8260B	01/27/13	1	
4-Bromofluorobenzene	100.	% Rec.	8260B	01/27/13	1	

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge
Sample ID : GP-11 34-38FT
Collected By : Craig Eady
Collection Date : 01/24/13 15:35

ESC Sample # : L617368-08

Site ID : SPARTANBURG, SC
Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/27/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/27/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/27/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/27/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/27/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/27/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/27/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/27/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/27/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/27/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/27/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/27/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
Tetrachloroethene	14.	1.0	ug/l	8260B	01/27/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/27/13	1
Surrogate Recovery						
Toluene-d8	98.3		% Rec.	8260B	01/27/13	1
Dibromofluoromethane	91.8		% Rec.	8260B	01/27/13	1
a,a,a-Trifluorotoluene	98.7		% Rec.	8260B	01/27/13	1
4-Bromofluorobenzene	102.		% Rec.	8260B	01/27/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

January 28, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : January 26, 2013
Description : Castlebridge

ESC Sample # : L617368-09

Sample ID : GP-12 68-72FT

Site ID : SPARTANBURG, SC

Collected By : Craig Eady
Collection Date : 01/24/13 16:45

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Bromodichloromethane	BDL	1.0	ug/l	8260B	01/27/13	1
Bromoform	BDL	1.0	ug/l	8260B	01/27/13	1
Bromomethane	BDL	5.0	ug/l	8260B	01/27/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	01/27/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	01/27/13	1
Chloroethane	BDL	5.0	ug/l	8260B	01/27/13	1
Chloroform	BDL	5.0	ug/l	8260B	01/27/13	1
Chloromethane	BDL	2.5	ug/l	8260B	01/27/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	01/27/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
cis-1,2-Dichloroethene	6.8	1.0	ug/l	8260B	01/27/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	01/27/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	01/27/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/27/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	01/27/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	01/27/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
Tetrachloroethene	130	1.0	ug/l	8260B	01/27/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	01/27/13	1
Trichloroethene	3.5	1.0	ug/l	8260B	01/27/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	01/27/13	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	01/27/13	1
Dibromofluoromethane	117.		% Rec.	8260B	01/27/13	1
a,a,a-Trifluorotoluene	92.1		% Rec.	8260B	01/27/13	1
4-Bromofluorobenzene	102.		% Rec.	8260B	01/27/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Summary of Remarks For Samples Printed
01/28/13 at 14:38:37

TSR Signing Reports: 350
R5 - Desired TAT

Sample: L617368-01 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved; Added overnight shipping charges for T84187 - jeh 1/28/13
Sample: L617368-02 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved
Sample: L617368-03 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved
Sample: L617368-04 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved
Sample: L617368-05 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved
Sample: L617368-06 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved
Sample: L617368-07 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved
Sample: L617368-08 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved
Sample: L617368-09 Account: TERRATSC Received: 01/26/13 09:00 Due Date: 02/04/13 00:00 RPT Date: 01/28/13 14:17
vials are unpreserved

Company Name/Address:

Terracon - Taylors SC

3534 Rutherford Road
Taylors, SC 29687

Billing Information:

Mr. Craig Eady
3534 Rutherford Road
Taylors, SC 29687

Analysis/Container/Preservative

D031



L-A-B S-C-I-E-N-C-E-S

12055 Lebanon Road
Mt. Juliet, TN 37122Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859Report to: CRAIG EADY Email to: *c.eady@terracon.com*

Project Description: CASTLEBRIDGE

Client Project #: 80117104

City/Site Collected SPARTANBURG, SC

ESC Key:

P.O. #:

Site/Facility ID#:



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Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Report Summary

Tuesday April 23, 2013

Report Number: L631271

Samples Received: 04/18/13

Client Project: 86117104

Description: Castlebridge

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jimmy Hunt
Jimmy Hunt, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge
Sample ID : GP-13 50-54FT
Collected By : Craig Eady
Collection Date : 04/16/13 10:30

ESC Sample # : L631271-01

Site ID : SPARTANBURG, SC
Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	04/21/13	1
Benzene	BDL	1.0	ug/l	8260B	04/21/13	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	04/21/13	1
Bromoform	BDL	1.0	ug/l	8260B	04/21/13	1
Bromomethane	BDL	5.0	ug/l	8260B	04/21/13	1
Carbon disulfide	BDL	1.0	ug/l	8260B	04/21/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	04/21/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	04/21/13	1
Chloroethane	BDL	5.0	ug/l	8260B	04/21/13	1
Chloroform	BDL	5.0	ug/l	8260B	04/21/13	1
Chloromethane	BDL	2.5	ug/l	8260B	04/21/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	04/21/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	04/21/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/21/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/21/13	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	04/21/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	04/21/13	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	04/21/13	1
2-Hexanone	BDL	10.	ug/l	8260B	04/21/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	04/21/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	04/21/13	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	04/21/13	1
Naphthalene	BDL	5.0	ug/l	8260B	04/21/13	1
Styrene	BDL	1.0	ug/l	8260B	04/21/13	1
1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
Toluene	BDL	5.0	ug/l	8260B	04/21/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	04/21/13	1
Xylenes, Total	BDL	3.0	ug/l	8260B	04/21/13	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	04/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge
Sample ID : GP-13 50-54FT
Collected By : Craig Eady
Collection Date : 04/16/13 10:30

ESC Sample # : L631271-01

Site ID : SPARTANBURG, SC
Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	04/21/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/21/13	1
Dibromofluoromethane	102.		% Rec.	8260B	04/21/13	1
a,a,a-Trifluorotoluene	96.9		% Rec.	8260B	04/21/13	1
4-Bromofluorobenzene	97.0		% Rec.	8260B	04/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge
Sample ID : GP-15 58-62FT
Collected By : Craig Eady
Collection Date : 04/16/13 16:00

ESC Sample # : L631271-02

Site ID : SPARTANBURG, SC

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	04/21/13	1
Benzene	BDL	1.0	ug/l	8260B	04/21/13	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	04/21/13	1
Bromoform	BDL	1.0	ug/l	8260B	04/21/13	1
Bromomethane	BDL	5.0	ug/l	8260B	04/21/13	1
Carbon disulfide	BDL	1.0	ug/l	8260B	04/21/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	04/21/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	04/21/13	1
Chloroethane	BDL	5.0	ug/l	8260B	04/21/13	1
Chloroform	BDL	5.0	ug/l	8260B	04/21/13	1
Chloromethane	BDL	2.5	ug/l	8260B	04/21/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	04/21/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/21/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	04/21/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/21/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/21/13	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	04/21/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	04/21/13	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	04/21/13	1
2-Hexanone	BDL	10.	ug/l	8260B	04/21/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	04/21/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	04/21/13	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	04/21/13	1
Naphthalene	BDL	5.0	ug/l	8260B	04/21/13	1
Styrene	BDL	1.0	ug/l	8260B	04/21/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
Tetrachloroethene	3.0	1.0	ug/l	8260B	04/21/13	1
Toluene	BDL	5.0	ug/l	8260B	04/21/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	04/21/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	04/21/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	04/21/13	1
Xylenes, Total	BDL	3.0	ug/l	8260B	04/21/13	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	04/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge

ESC Sample # : L631271-02

Sample ID : GP-15 58-62FT

Site ID : SPARTANBURG, SC

Collected By : Craig Eady
Collection Date : 04/16/13 16:00

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	04/21/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/21/13	1
Dibromofluoromethane	102.		% Rec.	8260B	04/21/13	1
a,a,a-Trifluorotoluene	95.6		% Rec.	8260B	04/21/13	1
4-Bromofluorobenzene	95.4		% Rec.	8260B	04/21/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge
Sample ID : GP-16 27-31FT
Collected By : Craig Eady
Collection Date : 04/16/13 16:45

ESC Sample # : L631271-03

Site ID : SPARTANBURG, SC
Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	04/22/13	1
Benzene	BDL	1.0	ug/l	8260B	04/22/13	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	04/22/13	1
Bromoform	BDL	1.0	ug/l	8260B	04/22/13	1
Bromomethane	BDL	5.0	ug/l	8260B	04/22/13	1
Carbon disulfide	BDL	1.0	ug/l	8260B	04/22/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	04/22/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	04/22/13	1
Chloroethane	BDL	5.0	ug/l	8260B	04/22/13	1
Chloroform	BDL	5.0	ug/l	8260B	04/22/13	1
Chloromethane	BDL	2.5	ug/l	8260B	04/22/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	04/22/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	04/22/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/22/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/22/13	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	04/22/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	04/22/13	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	04/22/13	1
2-Hexanone	BDL	10.	ug/l	8260B	04/22/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	04/22/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	04/22/13	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	04/22/13	1
Naphthalene	BDL	5.0	ug/l	8260B	04/22/13	1
Styrene	BDL	1.0	ug/l	8260B	04/22/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
Tetrachloroethene	8.2	1.0	ug/l	8260B	04/22/13	1
Toluene	BDL	5.0	ug/l	8260B	04/22/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	04/22/13	1
Xylenes, Total	BDL	3.0	ug/l	8260B	04/22/13	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	04/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)



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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge

ESC Sample # : L631271-03

Sample ID : GP-16 27-31FT

Site ID : SPARTANBURG, SC

Collected By : Craig Eady
Collection Date : 04/16/13 16:45

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	04/22/13	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/22/13	1
Dibromofluoromethane	104.		% Rec.	8260B	04/22/13	1
a,a,a-Trifluorotoluene	97.8		% Rec.	8260B	04/22/13	1
4-Bromofluorobenzene	97.4		% Rec.	8260B	04/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge
Sample ID : GP-17 40-44FT
Collected By : Craig Eady
Collection Date : 04/16/13 17:30

ESC Sample # : L631271-04

Site ID : SPARTANBURG, SC
Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	04/22/13	1
Benzene	BDL	1.0	ug/l	8260B	04/22/13	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	04/22/13	1
Bromoform	BDL	1.0	ug/l	8260B	04/22/13	1
Bromomethane	BDL	5.0	ug/l	8260B	04/22/13	1
Carbon disulfide	BDL	1.0	ug/l	8260B	04/22/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	04/22/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	04/22/13	1
Chloroethane	BDL	5.0	ug/l	8260B	04/22/13	1
Chloroform	BDL	5.0	ug/l	8260B	04/22/13	1
Chloromethane	BDL	2.5	ug/l	8260B	04/22/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	04/22/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	04/22/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/22/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/22/13	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	04/22/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	04/22/13	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	04/22/13	1
2-Hexanone	BDL	10.	ug/l	8260B	04/22/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	04/22/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	04/22/13	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	04/22/13	1
Naphthalene	BDL	5.0	ug/l	8260B	04/22/13	1
Styrene	BDL	1.0	ug/l	8260B	04/22/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
Tetrachloroethene	8.5	1.0	ug/l	8260B	04/22/13	1
Toluene	BDL	5.0	ug/l	8260B	04/22/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	04/22/13	1
Xylenes, Total	BDL	3.0	ug/l	8260B	04/22/13	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	04/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge

ESC Sample # : L631271-04

Sample ID : GP-17 40-44FT

Site ID : SPARTANBURG, SC

Collected By : Craig Eady
Collection Date : 04/16/13 17:30

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	04/22/13	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	04/22/13	1
Dibromofluoromethane	102.		% Rec.	8260B	04/22/13	1
a,a,a-Trifluorotoluene	97.4		% Rec.	8260B	04/22/13	1
4-Bromofluorobenzene	97.8		% Rec.	8260B	04/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge
Sample ID : GP-18 47-51FT
Collected By : Craig Eady
Collection Date : 04/16/13 18:30

ESC Sample # : L631271-05

Site ID : SPARTANBURG, SC

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	04/22/13	1
Benzene	BDL	1.0	ug/l	8260B	04/22/13	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	04/22/13	1
Bromoform	BDL	1.0	ug/l	8260B	04/22/13	1
Bromomethane	BDL	5.0	ug/l	8260B	04/22/13	1
Carbon disulfide	BDL	1.0	ug/l	8260B	04/22/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	04/22/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	04/22/13	1
Chloroethane	BDL	5.0	ug/l	8260B	04/22/13	1
Chloroform	BDL	5.0	ug/l	8260B	04/22/13	1
Chloromethane	BDL	2.5	ug/l	8260B	04/22/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	04/22/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/22/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	04/22/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/22/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/22/13	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	04/22/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	04/22/13	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	04/22/13	1
2-Hexanone	BDL	10.	ug/l	8260B	04/22/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	04/22/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	04/22/13	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	04/22/13	1
Naphthalene	BDL	5.0	ug/l	8260B	04/22/13	1
Styrene	BDL	1.0	ug/l	8260B	04/22/13	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
Toluene	BDL	5.0	ug/l	8260B	04/22/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	04/22/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	04/22/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	04/22/13	1
Xylenes, Total	BDL	3.0	ug/l	8260B	04/22/13	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	04/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge

ESC Sample # : L631271-05

Sample ID : GP-18 47-51FT

Site ID : SPARTANBURG, SC

Collected By : Craig Eady
Collection Date : 04/16/13 18:30

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	04/22/13	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	04/22/13	1
Dibromofluoromethane	98.2		% Rec.	8260B	04/22/13	1
a,a,a-Trifluorotoluene	96.7		% Rec.	8260B	04/22/13	1
4-Bromofluorobenzene	96.0		% Rec.	8260B	04/22/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge
Sample ID : GP-19 27-31FT
Collected By : Craig Eady
Collection Date : 04/16/13 19:15

ESC Sample # : L631271-06

Site ID : SPARTANBURG, SC
Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	04/19/13	1
Benzene	BDL	1.0	ug/l	8260B	04/19/13	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	04/19/13	1
Bromoform	BDL	1.0	ug/l	8260B	04/19/13	1
Bromomethane	BDL	5.0	ug/l	8260B	04/19/13	1
Carbon disulfide	BDL	1.0	ug/l	8260B	04/19/13	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	04/19/13	1
Chlorobenzene	BDL	1.0	ug/l	8260B	04/19/13	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	04/19/13	1
Chloroethane	BDL	5.0	ug/l	8260B	04/19/13	1
Chloroform	BDL	5.0	ug/l	8260B	04/19/13	1
Chloromethane	BDL	2.5	ug/l	8260B	04/19/13	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	04/19/13	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	04/19/13	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/19/13	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/19/13	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	04/19/13	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	04/19/13	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	04/19/13	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	04/19/13	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/19/13	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	04/19/13	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	04/19/13	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/19/13	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	04/19/13	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	04/19/13	1
Ethylbenzene	BDL	1.0	ug/l	8260B	04/19/13	1
2-Butanone (MEK)	BDL	10.	ug/l	8260B	04/19/13	1
2-Hexanone	BDL	10.	ug/l	8260B	04/19/13	1
Methylene Chloride	BDL	5.0	ug/l	8260B	04/19/13	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	04/19/13	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	04/19/13	1
Naphthalene	BDL	5.0	ug/l	8260B	04/19/13	1
Styrene	BDL	1.0	ug/l	8260B	04/19/13	1
1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	04/19/13	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	04/19/13	1
Toluene	BDL	5.0	ug/l	8260B	04/19/13	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	04/19/13	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	04/19/13	1
Trichloroethene	BDL	1.0	ug/l	8260B	04/19/13	1
Vinyl chloride	BDL	1.0	ug/l	8260B	04/19/13	1
Xylenes, Total	BDL	3.0	ug/l	8260B	04/19/13	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	04/19/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)



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REPORT OF ANALYSIS

April 23, 2013

Mr. Craig Eady
Terracon - Taylors SC
3534 Rutherford Road
Taylors, SC 29687

Date Received : April 18, 2013
Description : Castlebridge

ESC Sample # : L631271-06

Sample ID : GP-19 27-31FT

Site ID : SPARTANBURG, SC

Collected By : Craig Eady
Collection Date : 04/16/13 19:15

Project # : 86117104

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	04/19/13	1
Surrogate Recovery						
Toluene-d8	96.1		% Rec.	8260B	04/19/13	1
Dibromofluoromethane	104.		% Rec.	8260B	04/19/13	1
a,a,a-Trifluorotoluene	95.7		% Rec.	8260B	04/19/13	1
4-Bromofluorobenzene	101.		% Rec.	8260B	04/19/13	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Summary of Remarks For Samples Printed
04/23/13 at 10:18:31

TSR Signing Reports: 350
R5 - Desired TAT

Sample: L631271-01 Account: TERRATSC Received: 04/18/13 09:00 Due Date: 04/26/13 00:00 RPT Date: 04/23/13 10:17
Sample: L631271-02 Account: TERRATSC Received: 04/18/13 09:00 Due Date: 04/26/13 00:00 RPT Date: 04/23/13 10:17
Sample: L631271-03 Account: TERRATSC Received: 04/18/13 09:00 Due Date: 04/26/13 00:00 RPT Date: 04/23/13 10:17
Sample: L631271-04 Account: TERRATSC Received: 04/18/13 09:00 Due Date: 04/26/13 00:00 RPT Date: 04/23/13 10:17
Sample: L631271-05 Account: TERRATSC Received: 04/18/13 09:00 Due Date: 04/26/13 00:00 RPT Date: 04/23/13 10:17
Sample: L631271-06 Account: TERRATSC Received: 04/18/13 09:00 Due Date: 04/26/13 00:00 RPT Date: 04/23/13 10:17

